

Title (en)

An air/fuel ratio detection device and an air/fuel ratio control device

Title (de)

Einrichtung zur Detektion des Luft/Kraftstoffverhältnisses und zur Steuerung des Luft/Kraftstoffverhältnisses

Title (fr)

Dispositif pour détecter le rapport air/carburant et pour commander le rapport air/carburant

Publication

EP 0816656 A3 19991110 (EN)

Application

EP 97109913 A 19970618

Priority

- JP 16451396 A 19960625
- JP 28521996 A 19961028

Abstract (en)

[origin: EP0816656A2] An air/fuel ratio detection device and an air/fuel ratio control device, in which combustion of an engine is controlled with a simple means and toxic substances in exhaust gas discharged from the engine are reduced. Time A during which a lean signal is at a high level is measured. If the time A is shorter than the predetermined value, it is determined that the air/fuel ratio is richer than a target value, and time B during which an electromagnetic valve 21 is open is lengthened, increasing the quantity of supply air and making leaner the fuel mixed air, such that the target air/fuel ratio is approached. If the time A is longer than the predetermined value, it is determined that the air/fuel ratio is leaner and the time B is shortened. <IMAGE>

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F02D 41/14

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CPC (source: EP US)

F02D 35/003 (2013.01 - EP US); **F02D 41/1474** (2013.01 - EP US); **F01N 3/22** (2013.01 - EP US)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 007, no. 047 (M - 196) 24 February 1983 (1983-02-24)
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 096 (M - 469) 12 April 1986 (1986-04-12)

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EP 0816656 A2 19980107; **EP 0816656 A3 19991110**; **EP 0816656 B1 20010801**; DE 69705899 D1 20010906; DE 69705899 T2 20011115; JP 3868041 B2 20070117; JP H1073041 A 19980317; US 6055844 A 20000502

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